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# SUMMATIVE ASSESSMENT - I, 2015-16 MATHEMATICS Class - X

Time Allowed: 3 hours

Maximum Marks: 90

#### General Instructions:

- All questions are compulsory.
- 2. The question paper consists of 31 questions divided into four sections A, B, C and D. Section-A comprises of 4 questions of 1 mark each; Section-B comprises of 6 questions of 2 marks each; Section-C comprises of 10 questions of 3 marks each and Section-D comprises of 11 questions of 4 marks each.
- There is no overall choice in this question paper.
- 4. Use of calculator is not permitted.

#### SECTION-A

Question	numbers 1	to 4 carry	ome	mark each
	er and entering			

- In ΔPQR, S and T are points on the sides PQ and PR respectively such that ST || QR. If PS=4 1 cm, PQ=9 cm and PR=4.5 cm, then find PT.
- Find the product of cos 30°.cos 60°.cos 90°.
- 3 If θ = 45°, then find the value of secθ.cotθ cosecθ.tanθ.
- Find mode, using an empirical relation, when it is given that mean and median are 10.5 and 1 9.6 respectively.

#### SECTION-B

# Question numbers 5 to 10 carry two marks each.

- 5 Find the HCF of 90 and 144 by Prime Factorisation method.
- Show that any positive odd integer can be written in the form 2 6m+1, 6m+3 or 6m+5 for some integer m.
- Given the linear equation 3x + 4y = 9 write another linear equation in these two variables such that the geometrical representation of the pair so formed is:
  - (i) intersecting lines (ii) coincident lines
- 8 M and N are points on the sides PQ and PR respectively of a ΔPQR. If PN = 4.8 cm, NR = 1.6 2 cm, PM = 4.5 cm and MQ = 1.5 cm, then find whether MN||QR or not.

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